

ABSTRACT

A ceramic filter (1), comprising a porous body (2) and filtration membranes (5), wherein the cross section shapes of a plurality of main flow passages (3) in a direction perpendicular to the flow direction of fluid to be purified or purified fluid are aligned in rows with a specified pattern and the cross section shape of a specific partition wall part (18) in the direction perpendicular to the flow direction of the fluid to be purified or the purified fluid is so formed as to be encompassed by a shape defined by two parallel lines apart at a specified distance from each other. The cross section shape of a first specific main flow (3a) in the direction perpendicular to the flow direction of the fluid to be purified or the purified fluid is formed in a polygon of a heptagon or more arranged in a specified state,  $\theta_1$ ,  $\theta_2$ ,  $\theta_3$ , and  $\theta_4$  are within the range of 110 to 160°, and A and B satisfy the requirement of  $0.3B \leq A \leq 0.7B$ . Thus, a yield can be increased without causing a defect such as a crack in the filtration membranes.